Internet Protocol compliance requirements in accordance with 11.002(g).

[61 FR 41470, Aug. 8, 1996, as amended at 64 FR 32748, June 17, 1999; 64 FR 72446, Dec. 27, 1999; 70 FR 57452, Sept. 30, 2005; 72 FR 73217, Dec. 26, 2007; 73 FR 10968, Feb. 28, 2008; 74 FR 65607, Dec. 10, 2009; 76 FR 31401, May 31, 2011]

EDITORIAL NOTE: At 79 FR 35862, June 26, 2014, §39.101 was amended; however, the amendment could not be incorporated due to inaccurate amendatory instruction.

39.102   Management of risk.

(a) Prior to entering into a contract for information technology, an agency should analyze risks, benefits, and costs. (See part 7 for additional information regarding requirements definition.) Reasonable risk taking is appropriate as long as risks are controlled and mitigated. Contracting and program office officials are jointly responsible for assessing, monitoring and controlling risk when selecting projects for investment and during program implementation.

(b) Types of risk may include schedule risk, risk of technical obsolescence, cost risk, risk implicit in a particular contract type, technical feasibility, dependencies between a new project and other projects or systems, the number of simultaneous high risk projects to be monitored, funding availability, and program management risk.

(c) Appropriate techniques should be applied to manage and mitigate risk during the acquisition of information technology. Techniques include, but are not limited to: prudent project management; use of modular contracting; thorough acquisition planning tied to budget planning by the program, finance and contracting offices; continuous collection and evaluation of risk-based assessment data; prototyping prior to implementation; post implementation reviews to determine actual project cost, benefits and returns; and focusing on risks and returns using quantifiable measures.

39.103   Modular contracting.

(a) This section implements 41 U.S.C. 2308. Modular contracting is intended to reduce program risk and to incentivize contractor performance while meeting the Governments need for timely access to rapidly changing technology. Consistent with the agency's information technology architecture, agencies should, to the maximum extent practicable, use modular contracting to acquire major systems (see 2.101) of information technology. Agencies may also use modular contracting to acquire non-major systems of information technology.

(b) When using modular contracting, an acquisition of a system of information technology may be divided into several smaller acquisition increments that—

(1) Are easier to manage individually than would be possible in one comprehensive acquisition;

(2) Address complex information technology objectives incrementally in order to enhance the likelihood of achieving workable systems or solutions for attainment of those objectives;

(3) Provide for delivery, implementation, and testing of workable systems or solutions in discrete increments, each of which comprises a system or solution that is not dependent on any subsequent increment in order to perform its principal functions;

(4) Provide an opportunity for subsequent increments to take advantage of any evolution in technology or needs that occur during implementation and use of the earlier increments; and

(5) Reduce risk of potential adverse consequences on the overall project by isolating and avoiding custom-designed components of the system.

(c) The characteristics of an increment may vary depending upon the type of information technology being acquired and the nature of the system being developed. The following factors may be considered:

(1) To promote compatibility, the information technology acquired through modular contracting for each increment should comply with common or commercially acceptable information technology standards when available and appropriate, and shall conform to the agency's master information technology architecture.

(2) The performance requirements of each increment should be consistent with the performance requirements of the completed, overall system within which the information technology will